

We Claim:

1. A pharmaceutical liquid suspension dosage form comprising:
5 particles of an NSAID and/or acetaminophen, said particles being substantially covered with one layer of a controlled release composition, wherein the pharmaceutical liquid suspension dosage form has a duration of therapeutic effect for at least about 8 hours after its initial administration to a mammal.

10 2. The dosage form of claim 1 further comprising a vehicle for the administration of the particles.

3. The dosage form of claim 2, wherein the vehicle comprises one or more agents selected from the group consisting of suspending systems, surfactants, sweeteners, buffering
15 agents, preservatives, flavoring agents, and mixtures thereof.

4. The dosage form of claim 2, wherein the vehicle comprises water, or mixtures of water and a pharmaceutically acceptable water-miscible co-solvent selected from the group consisting of glycols, alcohols, and glycerol.
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5. The dosage form of claim 1, wherein said particles are comprised of a core that is substantially covered by the controlled release composition.

6. The dosage form of claim 5, wherein said controlled release composition is
25 comprised of, based upon the total dry weight of the coating, from greater than about 0 percent and less than about 100 percent of an insoluble film forming polymer and from 0 percent to less than about 10 percent of an enteric polymer.

7. The dosage form of claim 5, wherein said controlled release coating is
30 substantially free of enteric polymers, and the pKa of at least one active ingredient contained in the particles is greater than the pH of the liquid suspension dosage form.

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8. The dosage form of claim 5, wherein the weight ratio of the insoluble film forming polymer and the enteric polymer in the controlled release coating is from about 80:20 to about 99:1.

5 9. The dosage form of claim 5, wherein the insoluble film forming polymer is selected from the group consisting of cellulose acetate, ethylcellulose, poly(ethyl acrylate, methyl methacrylate, trimethylammonioethyl methacrylate chloride) in a 1:2:0.1 weight ratio, and copolymers and mixtures thereof.

10 10. The dosage form of claim 5, wherein the enteric polymer is selected from the group consisting of hydroxypropyl methylcellulose phthalate, hydroxypropyl methylcellulose acetate succinate, cellulose acetate phthalate, polyvinylacetate phthalate, polymethacrylate-based polymers, and copolymers and mixtures thereof.

15 11. The dosage form of claim 10, wherein the polymethacrylate-based polymer is poly(methacrylic acid, methyl methacrylate) in a weight ratio of 1:2 and/or poly(methacrylic acid, methyl methacrylate) in a weight ratio of 1:1.

20 12. The dosage form of claim 5 wherein the coated particles are comprised of, based upon the total dry weight of the coated particles, from about 10 percent to about 40 percent of the controlled release composition.

13. The dosage form of claim 1, wherein said therapeutic effect is pain relief.

25 14. The dosage form of claim 1, wherein the NSAID is a propionic acid derivative NSAID.

15. A method for treating pain in a mammal in need thereof, which comprises administering the dosage form of claim 1 in an amount effective for providing pain relief to the mammal for a period of at least about 12 hours after administration of the dosage form.

30 16. A pharmaceutical liquid suspension dosage form comprising:

a) particles containing NSAID and/or acetaminophen, said particles being substantially covered with one layer of a controlled release coating; and

35 b) water, or mixtures of water and a pharmaceutically acceptable water-miscible co-solvent selected from the group consisting of glycols, alcohols, and glycerol,

wherein the pharmaceutical dosage form has a duration of therapeutic effect for at least about 8 hours after its administration.

17. The pharmaceutical liquid suspension of claim 16 further comprising, based upon the total weight of the liquid suspension:

5 a) from about 0.05 percent to about 40 percent of particles containing NSAID and/or acetaminophen, said particles being substantially covered with one layer of a controlled release coating; and

b) from about 20 percent to about 70 percent of water, or mixtures of water and a pharmaceutically acceptable water-miscible co-solvent selected from the group consisting of glycols, alcohols, and glycerol,

10 wherein the pharmaceutical dosage form has a duration of therapeutic effect for at least about 8 hours after its administration.

18. A method for treating pain in a mammal in need thereof, which comprises administering the dosage form of claim 17 in an amount effective for providing pain relief to the
15 mammal for a period of at least about 12 hours after administration of the dosage form.

19. A method of administering acetaminophen and/or an NSAID in a liquid suspension pharmaceutical dosage form to a mammal in need thereof, said method comprises providing to a mammal said dosage form such that the mammal receives a controlled release
20 dose of said acetaminophen and/or NSAID over a period of about 12 hours after administration of said dosage form, wherein no further acetaminophen and/or NSAID is provided during said 12 hour time period.

20. A pharmaceutical liquid suspension dosage form comprising:

25 a) particles containing NSAID and/or acetaminophen, said particles being substantially covered with one layer of a controlled release composition, said controlled release composition being comprised of, based upon the total weight of the controlled release composition, from greater than about 0 percent and less than about 90 percent of an insoluble film forming polymer and greater than about 0 percent to less
30 than about 10 percent of an enteric polymer; and

b) water, or mixtures of water and a pharmaceutically acceptable water-miscible co-solvent selected from the group consisting of glycols, alcohols, and glycerol,

wherein the pharmaceutical dosage form has a duration of therapeutic effect for at least about 12 hours after its administration.

35 21. The pharmaceutical liquid suspension dosage form of claim 20 further comprising, based upon a total weight of the dosage form:

- 5 a) from about 0.05 percent to about 40 percent of particles containing NSAID and/or acetaminophen, said particles being substantially covered with one layer of a controlled release composition, said controlled release composition being comprised of, based upon the total weight of the controlled release composition, from greater than about 0 percent and less than about 90 percent of an insoluble film forming polymer and greater than about 0 percent to less than about 10 percent of an enteric polymer; and
- b) from about 20 percent to about 70 percent of water, or mixtures of water and a pharmaceutically acceptable water-miscible co-solvent selected from the group consisting of glycols, alcohols, and glycerol,
- 10 wherein the pharmaceutical dosage form has a duration of therapeutic effect for at least about 12 hours after its administration.

22. The dosage form of claim 21, wherein the weight ratio of the insoluble film forming polymer and the enteric polymer in the controlled release coating is from about 99:1 to

15 about 80:20.